

# SPECIFICATIONS

## MODEL 7166 MERCURY WETTED RELAY CARD

**CHANNELS PER CARD:** 10

**CONTACT CONFIGURATION:** 2-pole, Form A; 1 of 10 selectable or 10 isolated channels, jumper selectable.

**CONNECTOR TYPE:** Quick disconnect screw terminals, No. 14 AWG maximum wire size.

**RELAY DRIVE CURRENT:** 75mA per relay typical.

**MAXIMUM SIGNAL LEVEL:** 300V peak. 0.75A DC or RMS switched, 2A DC or RMS carry. 30VA.

**CONTACT LIFE:**  $>4 \times 10^6$  closures (cold switching);  $>5 \times 10^7$  closures (at maximum signal level).



**CONTACT RESISTANCE:**

Channel IN to Channel OUT:  $<125\text{m}\Omega$  to rated life.

Channel IN to Card OUTPUT:  $<225\text{m}\Omega$  to rated life.

**CONTACT POTENTIAL:**  $<75\mu\text{V}$  per contact pair with copper leads typical.

**ACTUATION TIME:**  $<3\text{ms}$ , exclusive of mainframe.

**CHANNEL ISOLATION:**  $10^{10}\Omega$ ,  $<10\text{pF}$ .

**INPUT ISOLATION:**

Differential:  $>10^9\Omega$ ,  $<50\text{pF}$ .

Common Mode:  $>10^9\Omega$ ,  $<150\text{pF}$ .

**COMMON MODE VOLTAGE:** 300V peak.

**ENVIRONMENT:**

Operating:  $0^\circ$  to  $50^\circ\text{C}$ , up to  $35^\circ\text{C}$  at 70% R.H.

Storage:  $-25^\circ$  to  $65^\circ\text{C}$ .

**DIMENSIONS, WEIGHT:** 32mm high  $\times$  114mm wide  $\times$  272mm long ( $1\frac{1}{4}'' \times 4\frac{1}{2}'' \times 10\frac{3}{4}''$ ). Net weight 0.28kg (10 oz.).

NOTE: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE